

Title: Geometric Constructions of Linear Perspective and its Application in Practice

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Abstract: The content of the diploma thesis is primarily one-point and two-point perspective. The aim is to familiarize the reader with the basic constructions of the linear perspective. Another part was a plan of project days, testing it in practice and using the theory described in the thesis. During the project days, I received filled in questionnaires from my students in which I tested spatial imagination, knowledge of optical illusions and basic principles of a linear perspective. The results of the questionnaires are presented at the end of the thesis. I also created a set of my own original and solved exercises, and I present here instructions on how to create perspective optical illusions - on the enclosed DVD is a template to build the Ames room. The reader will also get acquainted with a brief history of imaging in a linear perspective. Part of the thesis is also a chapter about application of the principles of linear perspective in art lessons at primary and secondary schools. One of the main benefits of the work is a set of coloured spatial images that make it easier to understand each individual construction. Examples of these situations are also included on the DVD.

Keywords: perspective, optical illusion, Ames room